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## MODEL 5303084-003

**800-3000 MHz  
50 WATTS  
POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5303084-003 is a 50 Watt broadband amplifier that covers the 800-3000 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent efficiency, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

Like all OPHIR<sub>RF</sub> amplifiers, the 5303084-003 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.



	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	800-3000 MHz
2	Saturated Output Power	50 Watts minimum
3	Power at P1dB	25 Watts minimum
4	Noise Figure	10dB Max
5	IP3	50dB typical
6	Small Signal Gain	+48 dB min
7	Power Gain Flatness	± 2 dB max
8	Input VSWR	2:1 max
9	Harmonics	-20dBc typical @ 25 watts
10	Spurious Signals	< -60 dBc typical @ 25 watts
11	DC Consumption	220 Watts at full rated power maximum
12	DC Input Voltage	28VDC Nominal
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
15	Dimensions	6.0" x 5.0" x 1.1"
16	Weight	1.5 lb. max
17	Connectors	SMA female for RF input/output
18	Grounding	Chassis
19	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
20	Average Baseplate Temperature	0° C to +55° C
21	Operating Humidity	95% Non-condensing
21	Operating Altitude	Up to 10,000' Above Sea Level
22	Shock and Vibration	MIL-STD 810 (Method 516.6/ Method 514.6)

### 5303084-003 SPECIAL FEATURES AND OPTIONS

- ◇ - Optional heatsink and fans are available
- ◇ - Amplifier enable/disable pin standard
- ◇ - Amplifier blanking pin standard
- ◇ - Current monitoring standard
- ◇ - Temperature monitoring standard
- ◇ - Noise Figure 10dB Maximum

